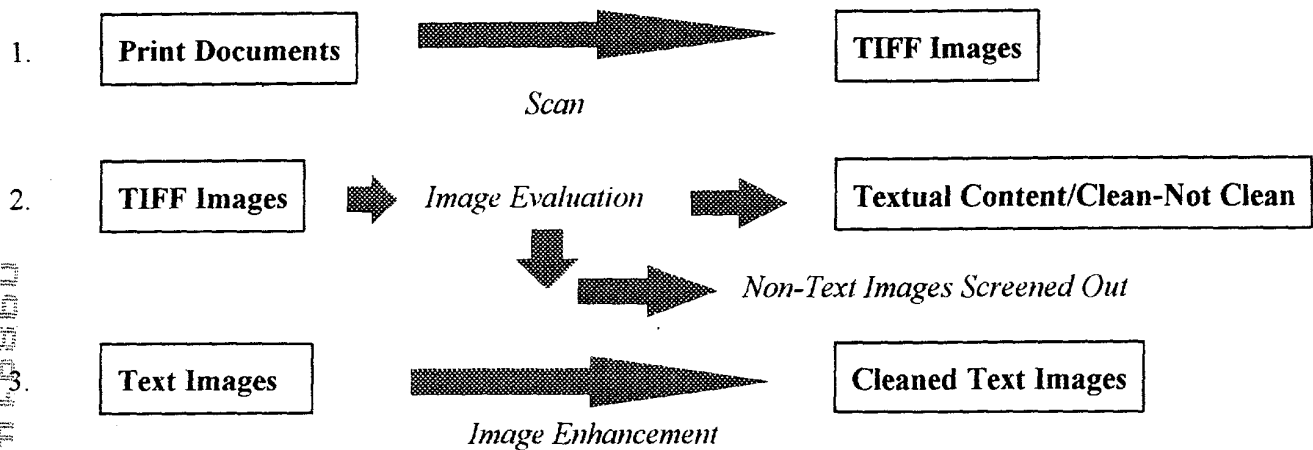


Figure 1

Image-to-Data Processing System:

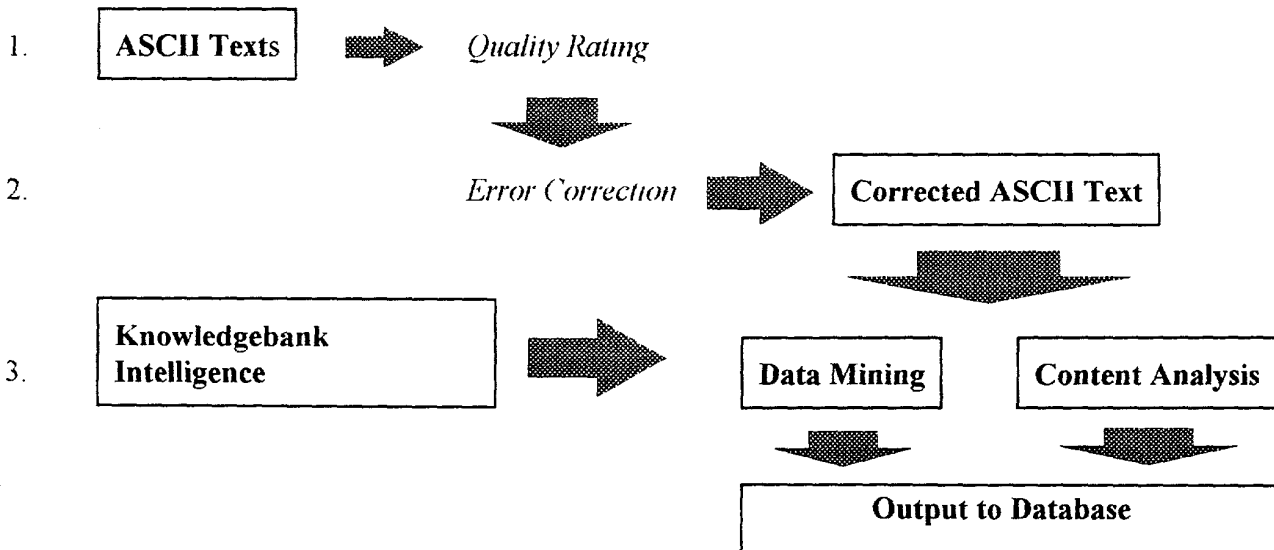
Pre-OCR Processes

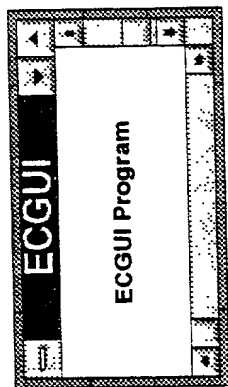
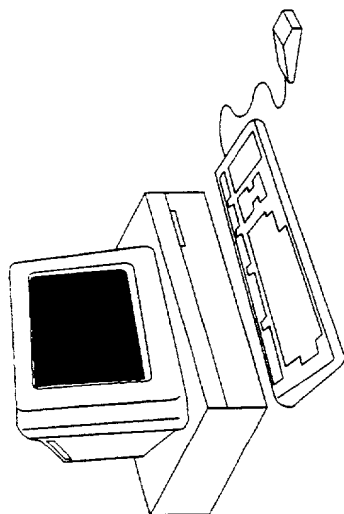


Optical Character Recognition: Image-to-Text Conversion

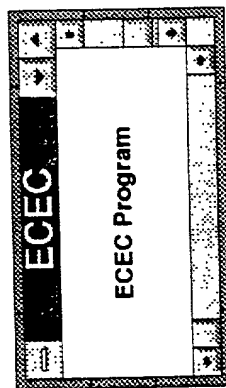


Post-OCR Processes: Text-to-Data Conversion





OR



OR

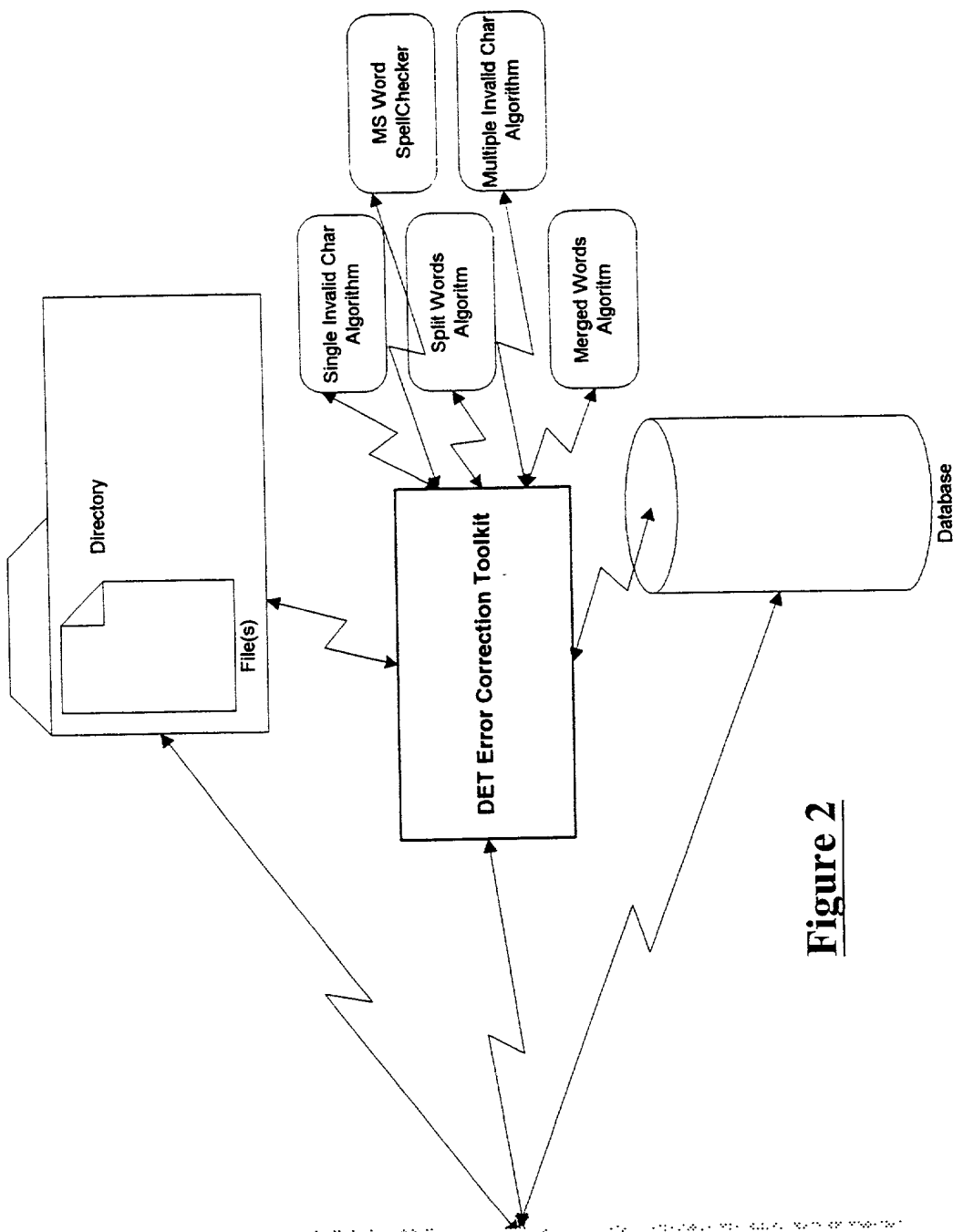
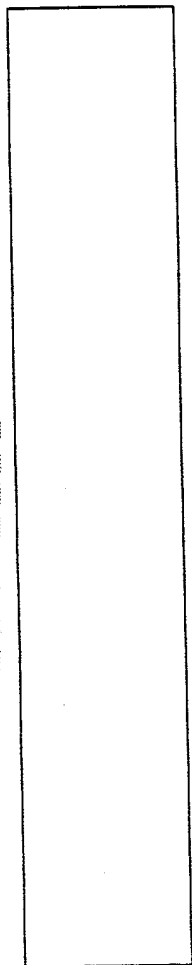
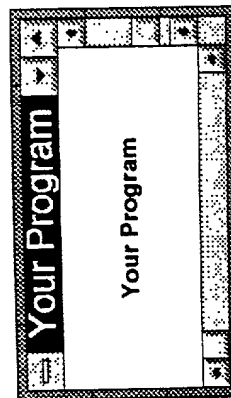


Figure 2

Computer-Aided Error Correction

Figure 3

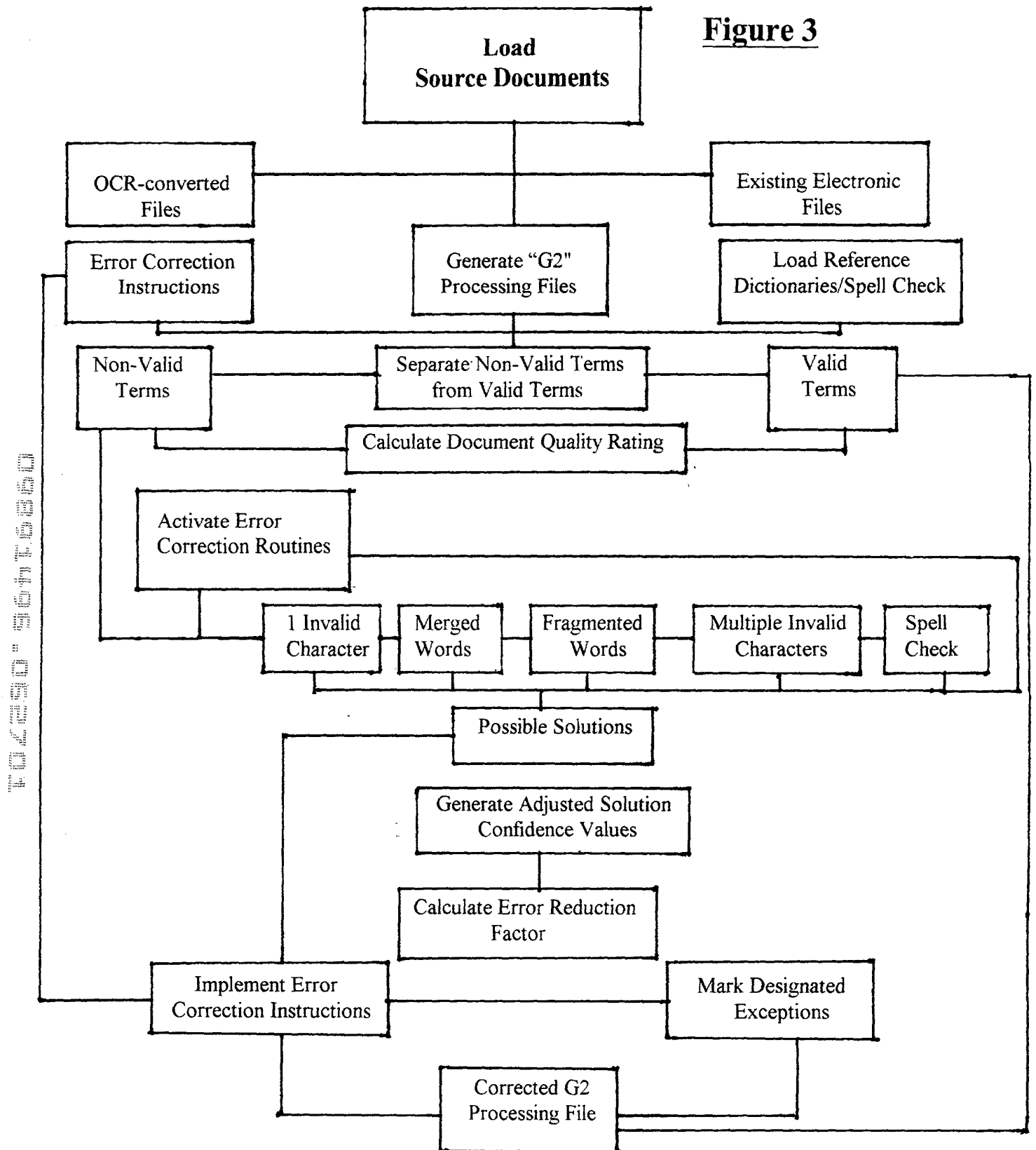


Figure 4

Diagram: Screening

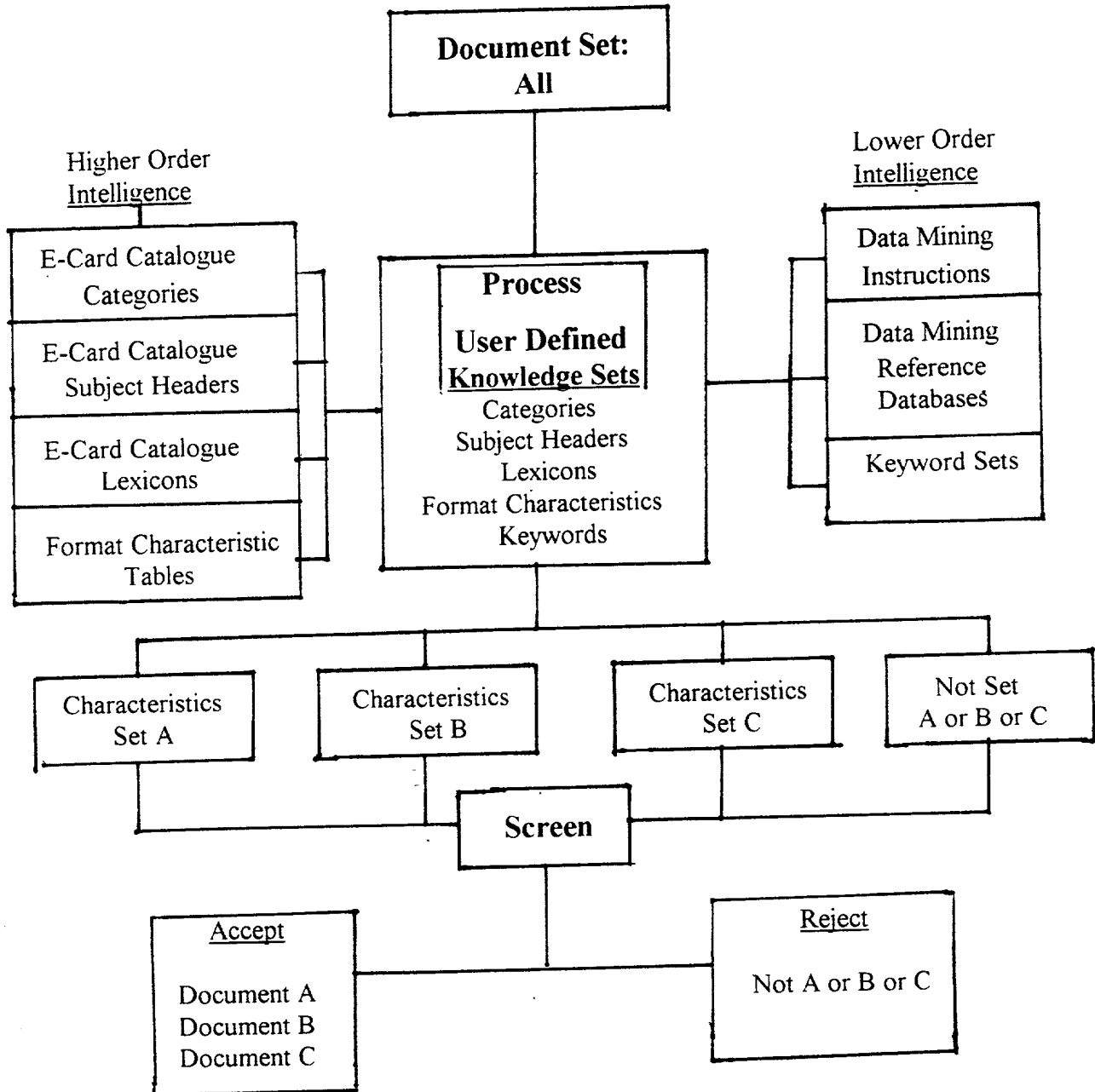
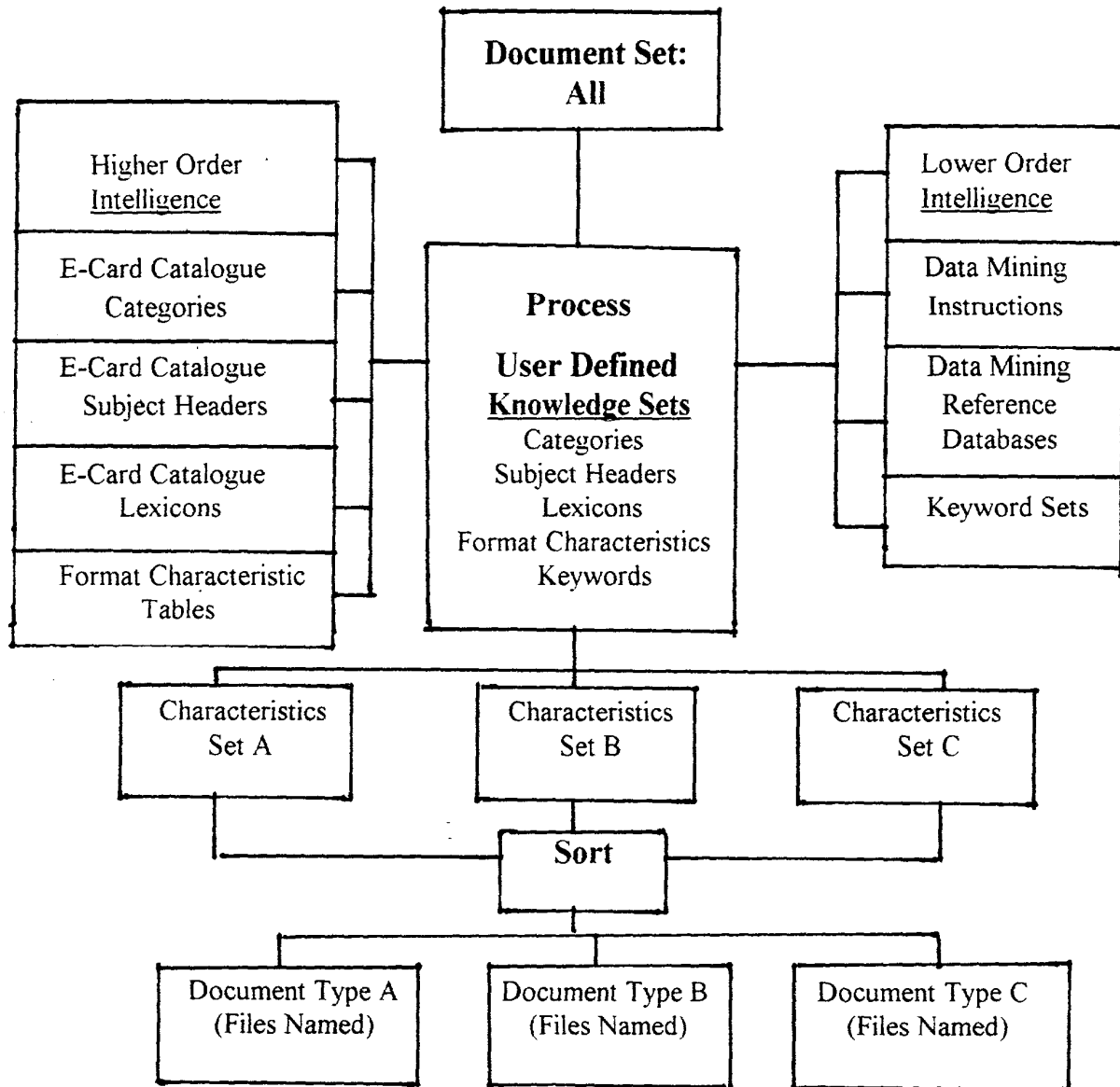


Figure 5

Diagram: Sorting



[illegible]

Diagram: Characterizing

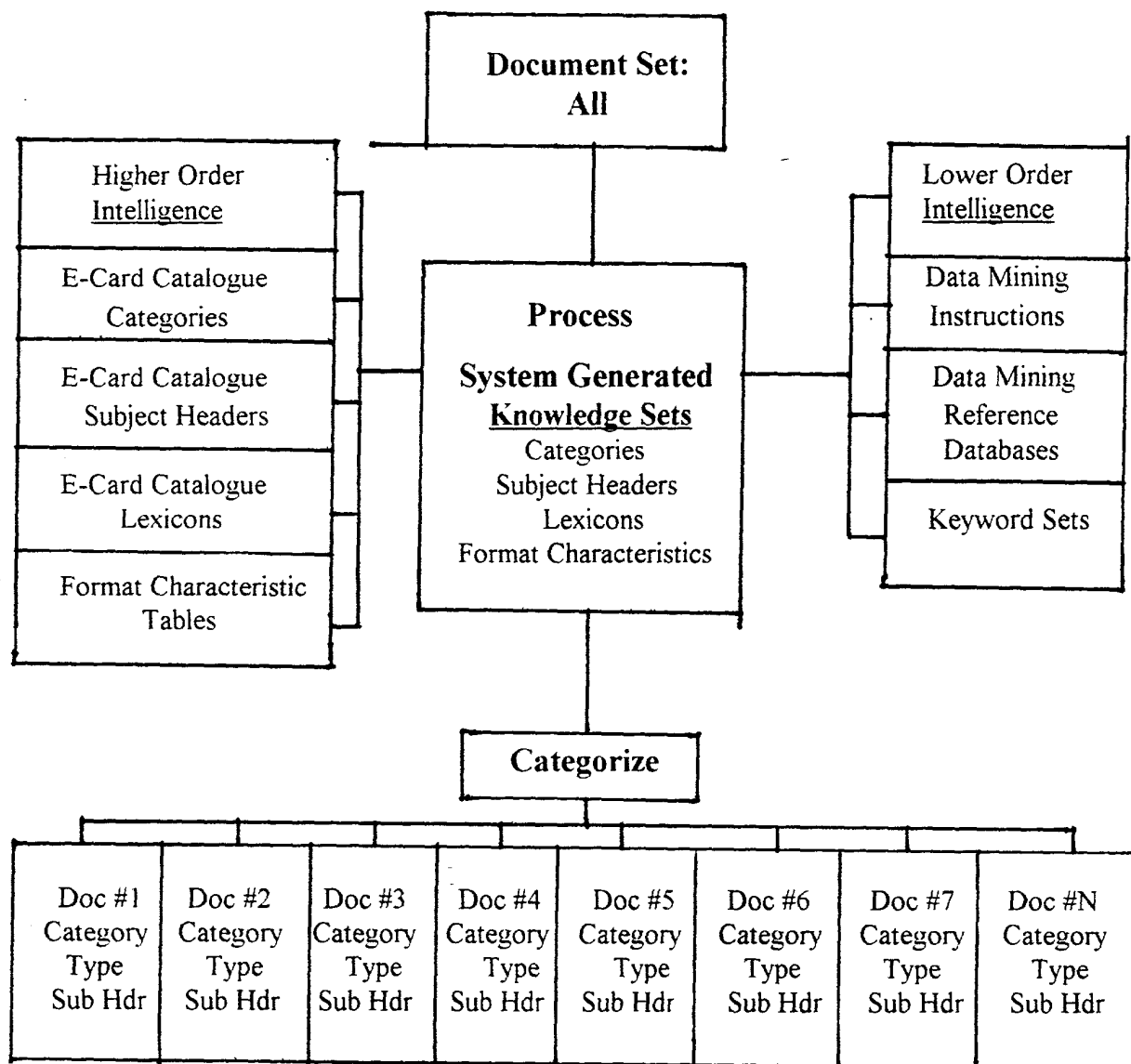
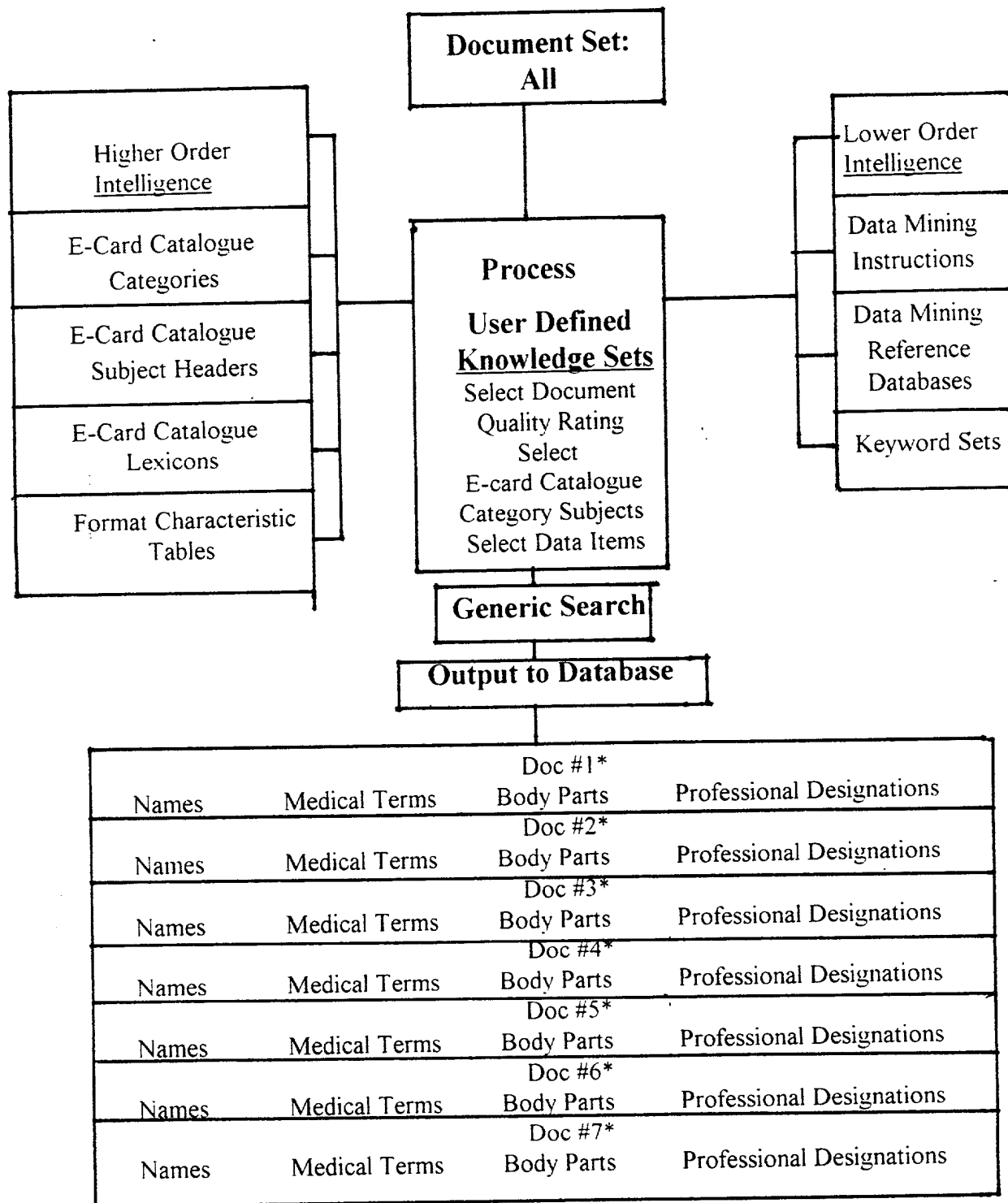


Figure 9

Diagram: Generic Searching



* as an example

Figure 10

Diagram: Data Mining

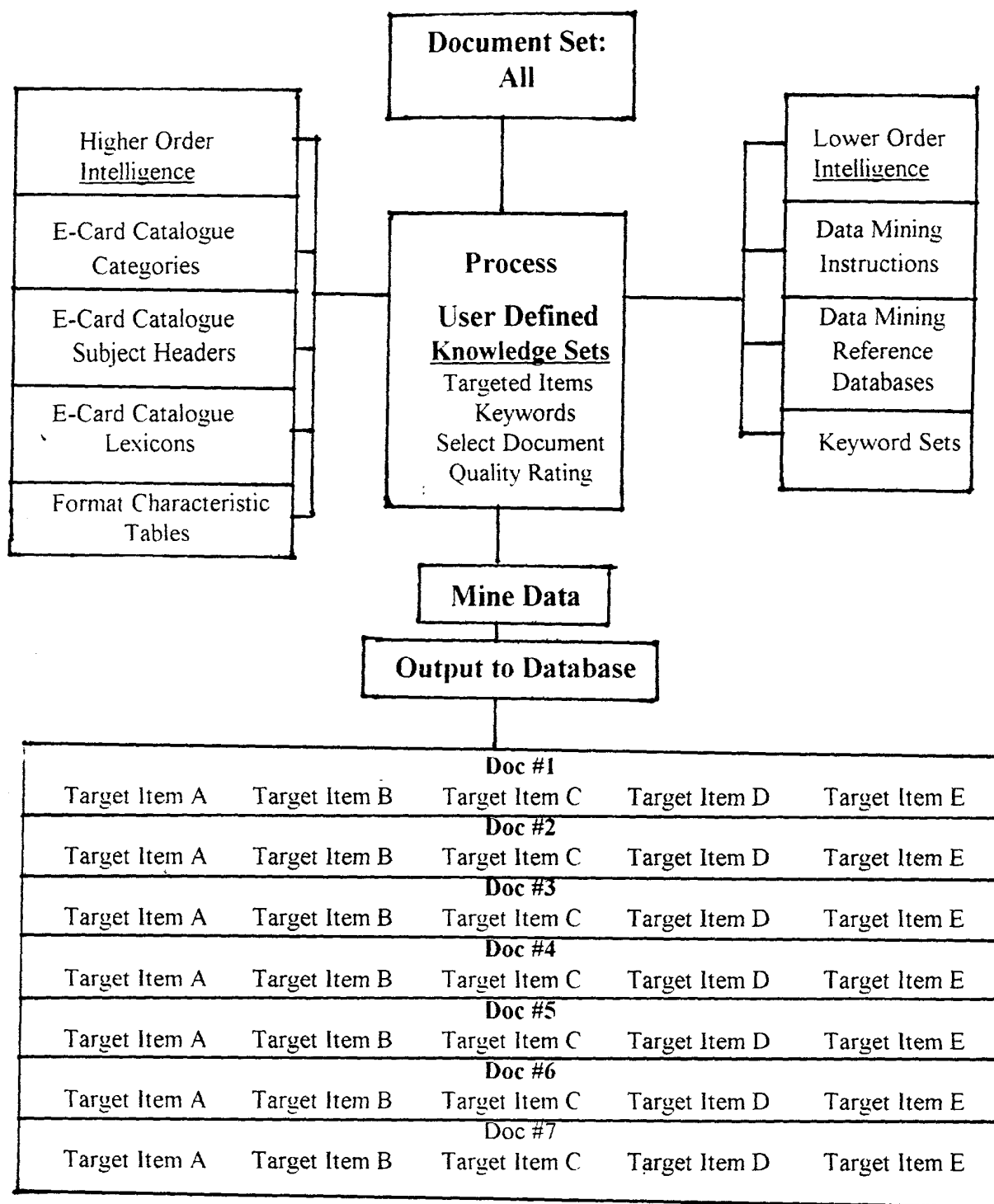
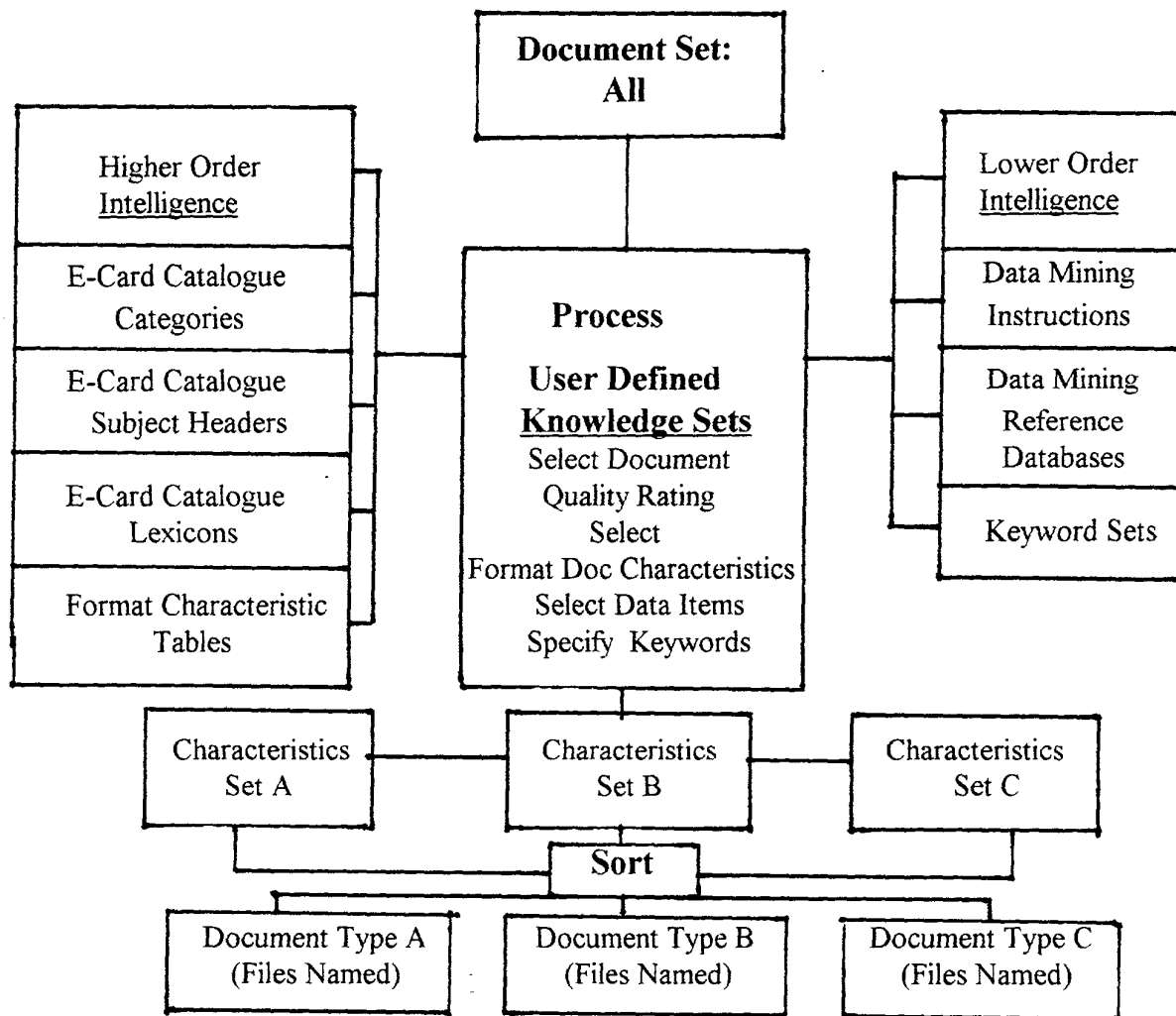


Figure 11

Diagram: Non Standard Forms Processing



Mine Data Appropriate to Document Type

Document Type A
(File Name)
Mined Data
(File Name)
Mined Data
(File Name)
Mined Data

Document Type B
(File Name)
Mined Data
(File Name)
Mined Data
(File Name)
Mined Data

Document Type C
(File Name)
Mined Data
(File Name)
Mined Data
(File Name)
Mined Data

Output to Database

Figure 12

Word list and index table
<word> <index#>

alpha	1004
...	
animal	1027
...	
astrophysics	2070
...	
botany	2903
...	
zoology	9900

Unit Grouping
Actual Unit Bit Array

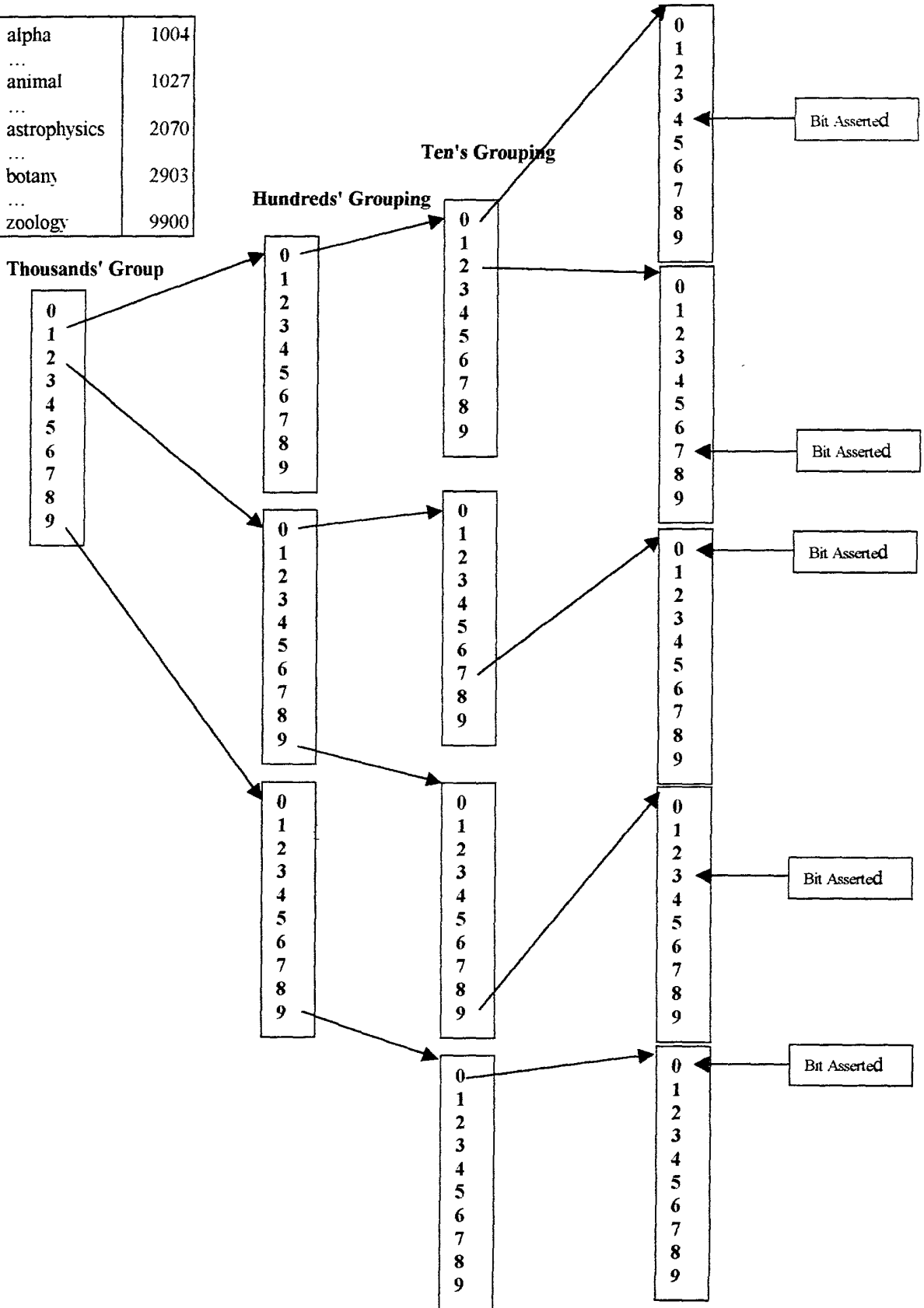


Figure 13

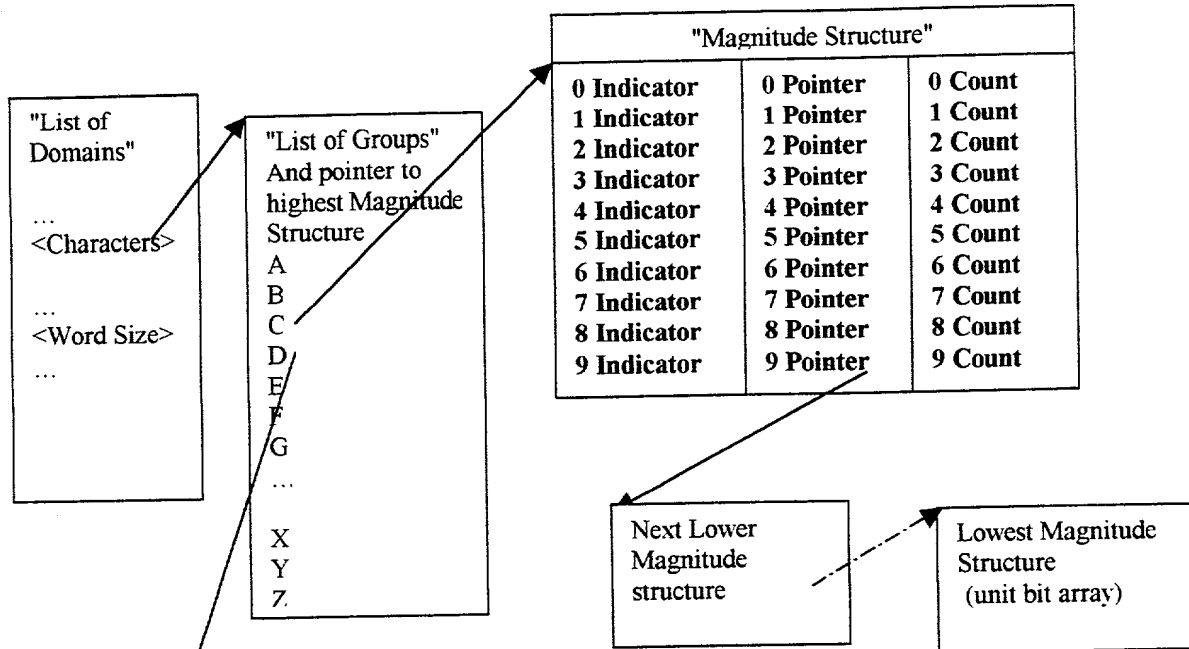


Figure 2a Actual Memory Mapping for the Full Array

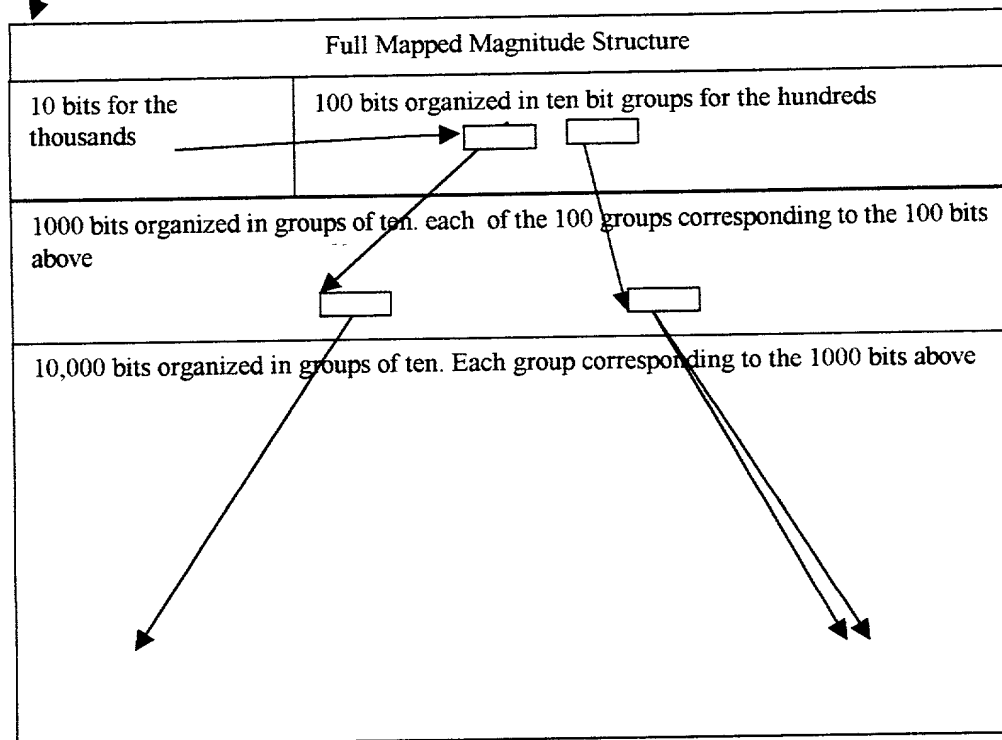


Figure 14

